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EXAMINER
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JOHNSON, CARLTON

ART UNIT	PAPER NUMBER
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2136

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/08/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

# Office Action Summary

Application No.

10/719,674

Applicant(s)

HUG, JOSHUA D.

Examiner

Carlton Johnson

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 21 November 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-61 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-61 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 11-15-2004.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. This action is responding to application papers filed **11-21-2003**.
2. Claims **1 - 61** are pending. Claims **1, 20, 31, 34, 49** are independent.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims **1 - 4, 6, 8, 9, 11 - 24, 26 - 31, 34 - 39, 41,42, 44 - 52, 54, 56, 57, 59 - 61** are rejected under 35 U.S.C. 102(e) as being anticipated by **Nonaka et al.** (US PGPUB No. **20030046238**).

**Regarding Claim 1**, Nonaka discloses a method comprising:

- a) -obtaining an integrity hash of rights information stored at a client device, said rights information being associated with content stored at the client device; (see Nonaka paragraph [0019, lines 1-6; paragraph [0019], lines 7-11; paragraph [0027], lines 1-7: generate (i.e. obtain) integrity hash using UCP (i.e. rights) information; paragraph [0246], lines 1-4: storage circuit for encrypted content key

data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

- b) encrypting the integrity hash using a client device key to generate an encrypted hash, said client device key being externally inaccessible from the client device; (see Nonaka (see Nonaka paragraph [0026], lines 21-25: encryption utilized UCP (i.e. rights) information; paragraph [0036], lines 1-4: license (i.e. device) key utilized; paragraph [0346], lines 5-8: inaccessible secure trusted device utilized for hash generation) and
- c) storing the encrypted hash on the client device. (see Nonaka paragraph [0246], lines 1-4: storage circuit for encrypted content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claims 2, 35, 50**, Nonaka discloses the method of claim 1 wherein obtaining the integrity hash comprises: receiving the integrity hash from a server device. (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: receive hash, UCP (i.e. rights) information; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, server)

**Regarding Claims 3, 36, 51**, Nonaka discloses the method of claim 1 wherein obtaining the integrity hash comprises: generating the integrity hash on the client device. (see Nonaka paragraph [0027], lines 1-7: generate hash; paragraph [0019],

lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claims 4, 37, 52**, Nonaka discloses the method of claim 3 wherein generating the integrity hash on the client device comprises:

- a) applying the client device key in a combination with the rights information; (see Nonaka paragraph [0027], lines 1-5; : license key utilized with UCP (i.e. rights information) for hash generation) and
- b) determining the integrity hash from the combination of the rights information and the client device key. (see Nonaka paragraph [0027], lines 1-7: license (i.e. device) key, UCP (i.e. rights information) utilized to generate (i.e. determine) hash)

**Regarding Claims 6, 39, 54**, Nonaka discloses the method of claim 5 wherein obtaining the second integrity hash comprises: receiving the second integrity hash from a server device (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: receive hash, UCP (i.e. rights) information; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, server), said server device having generated the second integrity hash using a server device key. (see Nonaka paragraph [0026], lines 21-25: encryption utilized; paragraph [0036], lines 1-4: license (i.e. device) key utilized; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6:

attached host CPU, server)

**Regarding Claims 8, 56,** Nonaka discloses the method of claim 1 further comprising:

- a) receiving, at the client device, a content key for the content; (see Nonaka paragraph [0026], lines 21-25: receive encryption key)
- b) encrypting the content key using the client device key to generate an encrypted content key; (see Nonaka paragraph [0026], lines 21-25: encryption utilized; paragraph [0036], lines 1-4: license (i.e. device) key utilized) and
- c) storing the encrypted content key on the client device. (see Nonaka paragraph [0246], lines 1-4: storage circuit for encrypted content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claims 9, 42, 57,** Nonaka discloses the method of claim 1 further comprising:

- a) generating a validation hash from at least the rights information; (see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: generate integrity (i.e. validation) hash)
- b) decrypting the encrypted hash to recover the integrity hash; (see Nonaka paragraph [0019], lines 1-6; paragraph [0021], lines 3-8: decryption of UCP (i.e. rights) information) and

- c) comparing the validation hash to the integrity hash to detect tampering with the rights information. (see Nonaka paragraph [0246], lines 4-8: comparison of hash values to detect tampering)

**Regarding Claims 11, 44, 59**, Nonaka discloses the method of claim 1 further comprising: storing the rights information on the client device in a clear form. (see Nonaka paragraph [0246], lines 1-4: storage circuit for UCP (i.e. rights information), and content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claims 12, 60**, Nonaka discloses the method of claim 10 further comprising: reading the rights information from the client device in the clear form out to a server device. (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: transfer UCP (i.e. rights) information)

**Regarding Claims 13, 28, 29, 30, 45, 61**, Nonaka discloses the method of claim 1 wherein the rights information comprise usage information, the method further comprising:

- a) tracking usage of the content; (see Nonaka paragraph [0053], lines 23-27: track content usage)

- b) updating the rights information with changes in usage; (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: transfer (i.e. update) UCP (i.e. rights) information)
- c) regenerating, re-encrypting, and restoring the integrity hash on the client device for each update of the rights information. (see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: re-generate (i.e. generate a second time) integrity hash; paragraph [0246], lines 1-4: storage circuit for encrypted UCP (i.e. rights) information)

**Regarding Claim 14**, Nonaka discloses the method of claim 1 wherein the integrity hash comprises a Hash Message Authentication Code (HMAC). (see Nonaka paragraph [0027], lines 1-7: generate a hash (i.e. integrity hash) value utilizing cryptographic (i.e. encryption/decryption key) procedures in a hash authentication processing system)

**Regarding Claims 15, 46**, Nonaka discloses the method of claim 1 wherein the client device key comprises a code embedded in hardware of the client device having no externally accessible data path. (see Nonaka paragraph [0036], lines 1-4: license (i.e. device) key utilized; paragraph [0346], lines 5-8: inaccessible secure device utilized for hash generation)



**Regarding Claim 16**, Nonaka discloses the method of claim 1 wherein the client device comprises at least one of an MP3 player, a personal data assistant, and cellular phone. (see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client device such as a PDA, cellular phone, or MP3 player (i.e. systems containing CPU))

**Regarding Claim 17**, Nonaka discloses the method of claim 1 further comprising at least one of:

- a) downloading the rights information from a server device; (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: transfer (i.e. download) UCP (i.e. rights) information) and
- b) installing a storage medium having the rights information stored thereon. (see Nonaka paragraph [0537], lines 3-6: place (i.e. install) on recording medium containing UCP (i.e. rights) information)

**Regarding Claim 18**, Nonaka discloses the method of claim 1 wherein the rights information grant unlimited play for the content on the client device. (see Nonaka paragraph [0339], lines 2-6: playback module; paragraph [0346], lines 1-5: playback content data)

**Regarding Claim 19**, Nonaka discloses the method of claim 3 wherein generating the integrity hash comprises generating the integrity hash in trusted hardware. (see Nonaka

paragraph [0027], lines 1-7: obtain, generate integrity hash: SAM (i.e. trusted, secure hardware), generate hash; paragraph [0346], lines 5-8: inaccessible secure, trusted device)

**Regarding Claim 20**, Nonaka discloses a method comprising:

- a) obtaining a first integrity hash of rights information stored at a client device, said rights information being associated with content stored at the client device, said first integrity hash having been generated using an external key as an integrity secret; (see Nonaka paragraph [0027], lines 1-7: generate (i.e. obtain) integrity hash; paragraph [0022], lines 1-5: external, session key utilized)
- b) obtaining a second integrity hash of the rights information; (see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: re-generate or obtain (i.e. a second) integrity hash)
- c) encrypting the second integrity hash using a client device key to generate an encrypted hash, said client device key being externally inaccessible from the client device; (see Nonaka paragraph [0026], lines 21-25: encryption utilized; paragraph [0036], lines 1-4: license (i.e. device) key utilized; paragraph [0346], lines 5-8: inaccessible secure device utilized for hash generation)
- d) storing the rights information and the first integrity hash at the client device in a clear form; (see Nonaka paragraph [0246], lines 1-4: storage circuit for content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data

processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

and

- e) storing the encrypted hash at the client device. (see Nonaka paragraph [0246], lines 1-4: storage circuit for encrypted content key data storage; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claim 21**, Nonaka discloses the method of claim 20 further comprising:

- a) receiving a content key at the client device for the content; (see Nonaka paragraph [0026], lines 21-25: receive an encryption key at client device)
- b) encrypting the content key using the client device key to generate an encrypted content key; (see Nonaka paragraph [0026], lines 21-25: encryption utilized; paragraph [0036], lines 1-4: license (i.e. device) key utilized) and
- c) storing the encrypted content key on the client device. (see Nonaka paragraph [0246], lines 1-4: storage circuit for encrypted content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claim 22**, Nonaka discloses the method of claim 20 wherein obtaining the first integrity hash comprises:

- a) receiving the external key at the client device; (see Nonaka paragraph [0026], lines 21-25: receive key (i.e. session key) at client device) and

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- b) generating the first integrity hash at the client device using the external key. (see Nonaka paragraph [0027], lines 1-7: generate integrity hash value at client device)

**Regarding Claim 23**, Nonaka discloses the method of claim 20 wherein obtaining the first integrity hash comprises: receiving the first integrity hash from a server device. (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: receive UCP (i.e. rights) information; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, server)

**Regarding Claim 24**, Nonaka discloses the method of claim 20 wherein obtaining the second integrity hash comprises:

- a) receiving the second integrity hash from a server device; (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: receive UCP (i.e. rights) information; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, server) and
- b) receiving a key used by the server device to generate the second integrity hash. (see Nonaka paragraph [0026], lines 21-25: receiving key)

**Regarding Claim 26**, Nonaka discloses the method of claim 20 further comprising:

- a) reading the rights information and the first integrity hash from the client device in the clear form out to a server device; (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: transfer (i.e. reading) UCP (i.e. rights) information))
- b) generating a validation hash, using the external key, of at least the rights information read from the client device; (see Nonaka paragraph [0027], lines 1-7: generate integrity hash at client device; paragraph [0022], lines 1-5: external, session key utilized) and
- c) comparing the validation hash to the first integrity hash to detect tampering. (see Nonaka paragraph [0246], lines 4-8: comparison hash values to detect tampering)

**Regarding Claim 27**, Nonaka discloses the method of claim 20 further comprising:

- a) generating a validation hash from at least the rights information; (see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: generate integrity hash)
- b) decrypting the encrypted hash using the client device key to recover the second integrity hash; (see Nonaka paragraph [0019], lines 1-6; paragraph [0021], lines 3-8: decryption UCP (i.e. rights) information) and
- c) comparing the validation hash to the second integrity hash to detect tampering. (see Nonaka paragraph [0246], lines 4-8: comparison hash values to detect tampering)

**Regarding Claim 31**, Nonaka discloses a method comprising:

- a) generating a validation hash from at least rights information associated with content stored on a client device; ((see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: generate integrity hash)
- b) decrypting an encrypted hash to recover an integrity hash using a client device key that is externally inaccessible from the client device, said integrity hash having been previously generated from at least the rights information associated with the content; (see Nonaka paragraph [0019], lines 1-6; paragraph [0021], lines 3-8: decryption UCP (i.e. rights) information; paragraph [0346], lines 5-8: inaccessible secure device utilized for hash generation) and
- c) comparing the validation hash to the integrity hash to detect tampering with the rights information. (see Nonaka paragraph [0246], lines 4-8: comparison hash values to detect tampering)

**Regarding Claim 34**, Nonaka discloses a client device comprising:

- a) a register to store a client device key, said register being externally inaccessible from the client device; (see Nonaka paragraph [0048], lines 1-4: register usage by data processing apparatus)

- b) a memory to store content and rights information associated with the content, said memory being externally accessible; (see Nonaka paragraph [0246], lines 1-4: storage circuit for content key data)
- c) hash circuitry to obtain an integrity hash of the rights information; ((see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: generate (i.e. obtain) integrity hash) and
- d) encryption circuitry to encrypt the integrity hash using the client device key to generate an encrypted hash; (see Nonaka paragraph [0026], lines 21-25: encryption utilized; paragraph [0036], lines 1-4: license (i.e. device) key utilized)
- e) said memory to store the encrypted hash. (see Nonaka paragraph [0246], lines 1-4: storage circuit for encrypted content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claim 38**, Nonaka discloses the client device of claim 34 wherein the integrity hash comprises a first integrity hash, the hash circuitry further to obtain a second integrity hash of the rights information, said memory to store the second integrity hash in a clear form. (see Nonaka paragraph [0246], lines 1-4: storage circuit for content data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

**Regarding Claim 41**, Nonaka discloses the client device of claim 34 wherein

- a) the encryption circuitry is to encrypt a content key for the content using the client device key to generate an encrypted content key; (see Nonaka paragraph [0026], lines 21-25: encryption utilized; paragraph [0036], lines 1-4: license (i.e. device) key utilized) and
- b) the memory is to store the encrypted content key on the client device. ((see Nonaka paragraph [0246], lines 1-4: storage circuit (i.e. memory) for encrypted content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client))

**Regarding Claim 47**, Nonaka discloses the client device of claim 34 further comprising at least one of:

- a) an input port to download the rights information from a server device; (see Nonaka paragraph [0019], lines 7-10: interface (i.e. bus) for UCP (i.e. rights) information transfer) and
- b) a storage medium port to receive a storage medium having the rights information stored thereon. (see Nonaka paragraph [0246], lines 1-4: storage circuit for UCP (i.e. rights) information)

**Regarding Claim 48**, Nonaka discloses the client device of claim 47 wherein the memory at least partially comprises the storage medium. (see Nonaka paragraph



[0246], lines 1-4: storage circuit (i.e. memory) for content data)

**Regarding Claim 49**, Nonaka discloses a machine readable medium having stored thereon machine executable instructions, the execution of which to implement a method comprising:

- a) receiving rights information at a client device, said rights information being associated with content stored on the client device, said client device having a client device key that is externally inaccessible from the client device; (see Nonaka paragraph [0476], lines 1-4; paragraph [0525], lines 3-6: transfer UCP (i.e. rights) information; paragraph [0346], lines 5-8: inaccessible secure device utilized for hash generation)
- b) obtaining an integrity hash of the rights information; (see Nonaka paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: generate (i.e. obtain) integrity hash)
- c) encrypting the integrity hash using the client device key to generate an encrypted hash; (see Nonaka paragraph [0026], lines 21-25: encryption utilized; paragraph [0036], lines 1-4: license (i.e. device) key utilized) and
- d) storing the encrypted hash on the client device. (see Nonaka paragraph [0246], lines 1-4: storage circuit for encrypted content key data; paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims **5, 7, 25, 40, 53, 55** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Nonaka** in view of **Serret-Avila et al.** (US Patent No. **6,959,384**).

**Regarding Claims 5, 53**, Nonaka discloses the method of claim 1 wherein the integrity hash comprises a first integrity hash, the method further comprising:

- b) storing the second integrity hash on the client device in a clear form. (see Nonaka paragraph [0246], lines 1-4: storage circuit for content key data (i.e. first or second integrity hash); paragraph [0019], lines 1-6; paragraph [0019], lines 7-11: data processing apparatus; paragraph [0339], lines 2-6: attached host CPU, client)

Nonaka does specifically disclose the capability to generate a second integrity hash using a first integrity hash.

However, Serret-Avila discloses:

- a) obtaining a second integrity hash of the rights information; (see Serret-Avila col.4, lines 43-49; col. 5, lines 2-11: integrity hash generation using input hash value)

It would have been obvious to one of ordinary skill in the art to modify Nonaka as taught by Serret-Avila to enable the capability to generate a second integrity hash. One of ordinary skill in the art would have been motivated to employ the teachings of Serret-Avila in order to enable a relatively fast, secure, and efficient authentication of data streams. (see Serret-Avila col. 2, line 66 - col. 3, line 3: “ ... *a need for systems and methods that overcome some or all of these limitations by providing relatively fast, secure, and efficient authentication of data streams and other electronic content.* ... ”)

**Regarding Claims 7, 40, 55**, Nonaka discloses the method of claim 5 wherein obtaining the first integrity hash comprises:

Nonaka discloses wherein applying the client device key in a combination with the rights information and the second integrity hash, and determining the first integrity hash from the combination of the rights information, the second integrity hash, and the client device key. (see Nonaka paragraph [0026], lines 21-25: encrypt data UCP (i.e. rights information); paragraph [0036], lines 1-4: license key usage) Nonaka does specifically disclose the capability to generate a second integrity hash using a first integrity hash.

However, Serret-Avila discloses:

- a) applying the client device key in a combination with the rights information and the second integrity hash; and (see Serret-Avila col.4, lines 43-49; col. 5, lines 2-11: integrity hash generation using input hash value)
- b) determining the first integrity hash from the combination of the rights information, the second integrity hash, and the client device key. (see Serret-Avila col.4, lines 43-49; col. 5, lines 2-11: integrity hash generation using input hash value)

It would have been obvious to one of ordinary skill in the art to modify Nonaka as taught by Serret-Avila to enable the capability to generate a second integrity hash. One of ordinary skill in the art would have been motivated to employ the teachings of Serret-Avila in order to enable a relatively fast, secure, and efficient authentication of data streams. (see Serret-Avila col. 2, line 66 - col. 3, line 3)

**Regarding Claim 25**, Nonaka discloses the method of claim 20 wherein obtaining the second integrity hash comprises: generating the second integrity hash at the client device using the client device key as an integrity secret. (see Nonaka paragraph [0019, lines 1-6; paragraph [0019], lines 7-11: data processing apparatus (i.e. client device); paragraph [0027], lines 1-7: generate integrity hash) Nonaka does specifically disclose the capability to generate a second integrity hash using a first integrity hash. However, Serret-Avila discloses wherein generating the second integrity hash at the client device using the client device key as an integrity secret. (see Serret-Avila col.4, lines 43-49; col. 5, lines 2-11: integrity hash generation using input hash value)

It would have been obvious to one of ordinary skill in the art to modify Nonaka as taught by Serret-Avila to enable the capability to generate a second integrity hash. One of ordinary skill in the art would have been motivated to employ the teachings of Serret-Avila in order to enable a relatively fast, secure, and efficient authentication of data streams. (see Serret-Avila col. 2, line 66 - col. 3, line 3)

7. Claims **10, 32, 33, 43, 58** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Nonaka** in view of **Chase, Jr et al.** (US Patent No. **7,080,043**).

**Regarding Claims 10, 32, 43, 58**, Nonaka discloses the method of claim 9. (see Nonaka paragraph [0246], lines 4-8: comparison of hash values to detect tampering;) Nonaka does not specifically disclose disabling the content on the client device. However, Chase discloses wherein disabling the content on the client device if tampering is detected. (see Chase col. 3, lines 60-63: usage request; col. 4, lines 10-16; col. 33, lines 54-56; col. 33, lines 60-63; col. 34, lines 4-9: content compromised, content disabled, access permitted only if content is not disabled)

It would have been obvious to one of ordinary skill in the art to modify Nonaka as taught by Chase to enable the capability to disable content. One of ordinary skill in the art would have been motivated to employ the teachings of Chase in order to efficiently manage the rights attached to digital data such as the capability to revoke content if compromised, and add or remove a particular right. (see Chase col. 2, lines 47-51: “... *a need exists for a method and mechanism that allows a content owner to revoke all*

*rights of a user to render a piece of content, such as for example if the content owner learns that security with respect to such content has been breached. More generally, a need exists for a method and mechanism that allows a content owner to modify a license of the user to update rights of the user to render a piece of content, such as for example to extend an expiration date, adjust a play count, add or remove a particular right, etc. ... ")*

**Regarding Claim 33**, Nonaka discloses the method of claim 31 further comprising:

wherein to initiate generation of the validation hash and comparison to the integrity hash. (see Nonaka paragraph [0027], lines 1-7: generation of validation hash; paragraph [0246], lines 4-8: comparison hash values to detect tampering). Nonaka does not specifically disclose the capability to disable content.

However, Chase discloses:

- a) receiving a usage request for the content stored at the client device, said usage request; (see Chase col. 3, lines 60-63: usage request; col. 4, lines 10-16; col. 33, lines 54-56; col. 33, lines 60-63; col. 34, lines 4-9: content compromised, content disabled, access permitted only if content is not disabled) and
- b) permitting usage only if the content is not disabled. (see Chase col. 4, lines 10-16; col. 33, lines 54-56; col. 33, lines 60-63; col. 34, lines 4-9: content compromised, content disabled, access permitted only if content is not disabled)

It would have been obvious to one of ordinary skill in the art to modify Nonaka as taught by Chase to enable the capability to disable content. One of ordinary skill

in the art would have been motivated to employ the teachings of Chase in order to efficiently manage the rights attached to digital data such as the capability to revoke content if compromised, and add or remove a particular right. (see Chase col. 2, lines 47-51)

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlton Johnson whose telephone number is 571-270-1032. The examiner can normally be reached Monday through Friday from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nassar Moazzami, can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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January 2, 2007

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